

Appl. No. 09/822,292
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Reply to Office Action of 5/21/2004

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all previous versions, and listings, of claims in the instant Application.

1. (Currently Amended) A method for updating an internal database associated with a first wireless device comprising the steps of:
 - (a) receiving a first item of information relating to a new or revised agreement between a wireless service provider and a subscription company servicing the first wireless device, the first item of information corresponding to at least one wireless service provider that is, the wireless service provider being associated with a local calling area;
 - (b) targeting a set of subscribers associated with wireless devices including the first wireless device for receiving information related to the first item of information;
 - (c) updating a concerned database to include the target subscribers for receiving the information related to the first item;
 - (d) receiving a second item of information related to an autonomous registration event by the wireless device; and
 - (e) transmitting a third item of information to the wireless device only in response to the receipt of the second item of information, and only if the wireless device is associated with a targeted subscriber in the concerned database, wherein the third item of information is related to the first item of information.
2. (Original) The method for updating an internal database associated with a wireless device according to claim 1, further comprising a step of preparing the first item of information by converting the first item of information into an SMS message.
3. (Previously Presented) The method for updating an internal database associated with a wireless device according to claim 1, further comprising a step of comparing the second item information with a record in the concerned database.

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4. (Original) The method for updating an internal database associated with a wireless device according to claim 3, further comprising a step of determining a state of the record.

5. (Original) The method for updating an internal database associated with a wireless device according to claim 3, wherein a message for the wireless device is retrieved if a state of the record is equal to a wait state.

6. (Original) The method for updating an internal database associated with a wireless device according to claim 1, further comprising a step assembling the third item of information.

7. (Original) The method for updating an internal database associated with a wireless device according to claim 6, wherein the third item of information is assembled based in characteristics of the wireless device.

8. (Original) The method for updating an internal database associated with a wireless device according to claim 6, wherein the third item of information is an SMS message.

9. (Original) The method for updating an internal database associated with a wireless device according to claim 1, wherein an entry is created in a pending database after the third item of information has been sent to the wireless device.

10. (Original) The method for updating an internal database associated with a wireless device according to claim 1, wherein the second item of information is obtained by a probe in communication with at least one SS7 link.

11. (Original) The method for updating an internal database associated with a wireless device according to claim 1, wherein the second item of information is obtained by a feed from an STP.

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12. (Original) The method for updating an internal database associated with a wireless device according to claim 1, further comprising the step of filtering registration messages from raw SS7 data.

13. (Original) The method for updating an internal database associated with a wireless device according to claim 1, wherein an entry is created in a pending database after the third item of information has been sent to the wireless device.

14. (Currently Amended) A method for updating an internal database associated with a wireless device comprising the steps of:

(a) receiving an autonomous registration event by the wireless device, wherein the wireless device is associated with a subscriber belonging to a group of targeted subscribers for receiving an update to an internal wireless device database, the update relating to a new or revised agreement between at least one wireless service provider and a subscription company servicing the wireless device; and

(b) transmitting information to the wireless device only in response to the autonomous registration, wherein the information is associated with an identity of the at least one local wireless service provider, and wherein the transmitted information is adapted to be used by the wireless device to update the internal database associated with the wireless device.

15. (Original) The method for updating an internal database associated with a wireless device according to claim 14, wherein the transmitted information includes information regarding a plurality of identities of local wireless service providers.

16. (Previously Presented) The method for updating an internal database associated with a wireless device according to claim 14, wherein the transmitted information assembled is based on the type of wireless device.

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17. (Original) The method for updating an internal database associated with a wireless device according to claim 14, further comprising a step of creating a record in a concerned database wherein the record is associated with a wireless device that has not received the transmitted information.

18. (Cancelled).

19. (Original) The method for updating an internal database associated with a wireless device according to claim 14, wherein the autonomous registration event is received after raw SS7 data has been filtered.

20. (Currently Amended) A system for updating an internal database associated with a wireless device comprising:

(a) an IRDB database, wherein the IRDB database includes information concerning wireless service providers and receives updates concerning the wireless service providers from the business office, the updates relating to a new or revised agreement between at least one of the wireless service providers and a subscription company servicing the wireless device;

(b) a centralized database in communication with the IRDB database;

(c) a pending database adapted to store information related to records of messages that have been sent but no acknowledgement has been received;

(d) a concerned database adapted to store information related to records of wireless devices whose internal databases are targeted to receive updated information and that have not yet received the updated information,

wherein the system sends information to a wireless device targeted to receive updated information only in response to an autonomous registration by the wireless device.

21. (Original) The system according to claim 20, further comprising a history database adapted to store information related to past transactions.

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22. (Original) The system according to claim 20, further comprising a message database adapted to store portions of SMS messages.

23. (Original) The system according to claim 22, wherein the system composes the information sent to the wireless device by retrieving one or more portions of SMS messages from the message database.

24. (Original) The system according to claim 20, further comprising means for receiving autonomous registrations from a communications network.

25. (Original) The system according to claim 20, further comprising a probe in communication with at least one SS7 link.

26. (Original) The system according to claim 20, wherein the autonomous registration is received from a feed from an STP.

27. (Original) The system according to claim 20, further comprising a filter adapted to extract registration messages from raw SS7 data.

28. (Withdrawn) A method for determining successful delivery of an SMS message to a wireless device comprising the steps of:

- (a) receiving a return result from a wireless device;
- (b) determining if the return result is an error;
- (c) if the return result is an error, then determining the total number of errors received and comparing the total number of errors to a predetermined number; and
- (d) if the total number of errors equals or exceeds the predetermined number, then associating the wireless device with an unavailable condition in a database if the total number of errors received exceeds the predetermined total.

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29. (Withdrawn) The method according to claim 28, further comprising the step of updating a concerned database with a wait state for a record if the total number of errors is less than the predetermined number.

30. (Withdrawn) The method according to claim 28, further comprising the step of updating a concerned database with an unavailable state for a record if the total number of errors is greater than or equal to the predetermined number.

31. (Withdrawn) The method according to claim 28, further comprising the step of updating a concerned database with a done state for a record if the return result is not an error.

32. (Withdrawn) The method according to claim 28, further comprising the step of updating a history database.

33. (Withdrawn) A method for determining successful delivery of an SMS message to a wireless device comprising the steps of:

- (a) checking a time stamp of a record in a pending database;
- (b) using the time stamp to determine a total time;
- (c) determining if the total time exceeds a predetermined time period; and
- (d) updating a history database if the total time exceeds the predetermined period.

34. (Withdrawn) The method according to claim 33, further comprising the step of deleting the record from the pending database.

35. (Withdrawn) The method according to claim 33, further comprising the step of checking a concerned database to determine the number of attempts that have been made.

36. (Withdrawn) The method according to claim 35, wherein the record is marked with a wait state if the number of attempts is less than a predetermined number.

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37. (Withdrawn) The method according to claim 36, further comprising the step of updating the history database a second time.

38. (Withdrawn) The method according to claim 35, wherein the record is marked with a second state if the number of attempts is greater than or equal to a predetermined number.

39. (Withdrawn) The method according to claim 38, further comprising a step of updating the history database a second time.

40. (New) A storage medium including machine-readable program code for updating an internal database associated with a first wireless device, the program code including instructions for causing a computer to implement a method, comprising:

(a) receiving a first item of information relating to a new or revised agreement between a wireless service provider and a subscription company servicing the first wireless device, the first item of information corresponding to at least one wireless service provider that is associated with a local calling area;

(b) targeting a set of subscribers associated with wireless devices including the first wireless device for receiving information related to the first item of information:

(c) updating a concerned database to include the target subscribers for receiving the information related to the first item:

(d) receiving a second item of information related to an autonomous registration event by the wireless device; and

(e) transmitting a third item of information to the wireless device only in response to the receipt of the second item of information, and only if the wireless device is associated with a targeted subscriber in the concerned database, wherein the third item of information is related to the first item of information.

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41. (New) The method for updating an internal database associated with a wireless device according to claim 40, further comprising a step of preparing the first item of information by converting the first item of information into an SMS message.

42. (New) The method for updating an internal database associated with a wireless device according to claim 40, further comprising a step of comparing the second item information with a record in a the concerned database.

43. (New) The method for updating an internal database associated with a wireless device according to claim 42, further comprising a step of determining a state of the record.

44. (New) The method for updating an internal database associated with a wireless device according to claim 42, wherein a message for the wireless device is retrieved if a state of the record is equal to a wait state.

45. (New) The method for updating an internal database associated with a wireless device according to claim 40, further comprising a step assembling the third item of information.

46. (New) The method for updating an internal database associated with a wireless device according to claim 45, wherein the third item of information is assembled based in characteristics of the wireless device.

47. (New) The method for updating an internal database associated with a wireless device according to claim 45, wherein the third item of information is an SMS message.

48. (New) The method for updating an internal database associated with a wireless device according to claim 40, wherein an entry is created in a pending database after the third item of information has been sent to the wireless device.

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49. (New) The method for updating an internal database associated with a wireless device according to claim 40, wherein the second item of information is obtained by a probe in communication with at least one SS7 link.

50. (New) The method for updating an internal database associated with a wireless device according to claim 40, wherein the second item of information is obtained by a feed from an STP.

51. (New) The method for updating an internal database associated with a wireless device according to claim 40, further comprising the step of filtering registration messages from raw SS7 data.

52. (New) The method for updating an internal database associated with a wireless device according to claim 40, wherein an entry is created in a pending database after the third item of information has been sent to the wireless device.

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53. (New) A wireless device including an internal database, the wireless device comprising a communications link to a system, the system comprising:

(a) an IRDB database, wherein the IRDB database includes information concerning wireless service providers and receives updates concerning the wireless service providers from a business office, the updates relating to a new or revised agreement between at least one of the wireless service providers and a subscription company servicing the wireless device;

(b) a centralized database in communication with the IRDB database;

(c) a pending database adapted to store information related to records of messages that have been sent but no acknowledgement has been received;

(d) a concerned database adapted to store information related to records of wireless devices, that include the wireless device, whose internal databases are targeted to receive updated information and that have not yet received the updated information,

wherein the wireless device receives updated information from the system only in response to an autonomous registration transmitted by the wireless device.

54. (New) The wireless device according to claim 53, wherein the autonomous registration includes transmitting a mobile identification number, an electronic serial number and a point code to the system; wherein in response to the transmitting, the mobile identification number is compared with information contained in the concerned database to determine whether the wireless device is identified as waiting for the updated information.

55. (New) The wireless device according to claim 53, wherein the wireless device transmits acknowledgement of successful receipt of the updated information to the system.

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56. (New) The wireless device according to claim 53, wherein the system marks the concerned database of the wireless device as unable to return an acknowledgement of successful completion of the updated information after the wireless device has made a specified number of unsuccessful attempts to return the acknowledgement.

57. (New) The wireless device according to claim 56, wherein the system further comprises a history database, wherein upon marking the concerned database of the wireless device as unable to return an acknowledgement of successful completion, the system updates the history database to reflect the unsuccessful completion.

58. (New) The wireless device according to claim 53, wherein the system further comprises a message database adapted to store portions of SMS messages.

59. (New) The wireless device according to claim 53, wherein the system composes the information sent to the wireless device by retrieving one or more portions of SMS messages from the message database.

60. (New) The wireless device according to claim 53, wherein the system further comprises a means for receiving autonomous registrations from a communications network.

70. (New) The wireless device according to claim 53, wherein the system further comprises a probe in communication with at least one SS7 link.

71. (New) The wireless device according to claim 53, wherein the autonomous registration is transmitted to a feed from an STP.

72. (New) The wireless device according to claim 53, wherein the system further comprises a filter adapted to extract registration messages from raw SS7 data.

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